AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1 (currently amended): A high strength electrical steel sheet and a processed part of the same characterized by containing, by mass %, C: 0.06% or less, Si: 0.2 2.0 to 6.5%, Mn: 0.05 to 3.0%, P: 0.30% or less, S or Se: 0.040% or less, Al: 2.50% or less, Cu: 0.6 to 8.0%, Cr: 4.5% or less, N: 0.0400% or less, and a balance of Fe and unavoidable impurities and containing a metal phase comprised of Cu having a diameter of 0.1 μm or less in the steel sheet by means of holding the steel sheet in a heat treatment at a temperature range of 300°C to 650°C for 5 seconds or more during production of the processed part.

2 (currently amended): A high strength electrical steel sheet and a processed part of the same as set forth in claim 1, characterized by further containing, by mass%, one or more of Nb: 8% or less, Ti: 1.0% or less, B: 0.010% or less, and Ni: 5% or less.

3 (currently amended): A high strength electrical steel sheet and a processed part of the same as set forth in claim 1, characterized by further containing, by mass%, one or more of Bi, Mo, W, Sn, Sb, Mg, Ca, Ce, La, and Co in a total of 0.5% or less.

4 (currently amended): A high strength electrical steel sheet and a processed part of the same as set forth in claim 1, wherein the number density of the metal phase comprised of Cu present in said steel is $20/\mu m^3$ or more.

5 (currently amended): A high strength electrical steel sheet and a processed part of the same as set forth in claim 1, wherein said steel sheet has an average crystal grain size of 30 to 300 μ m.

6 (currently amended): A high strength electrical steel sheet and a processed part of the same as set forth in claim 1, wherein the steel sheet has a processed structure remaining in it.

7 (currently amended): A high strength electrical steel sheet and a processed part of the same as set forth in claim 1, characterized in that the steel sheet or the part contains a Nb carbide or nitride.

Claims 8 to 10: (canceled).

11 (currently amended): A processed part of a high strength electrical steel sheet as set forth in claim 1, eharacterized wherein the part is heat treated after processing for a shaping step to form the processed part, so that the metal phase comprised mainly of Cu present in the processed part has a number density of 20/µm³ or more.

12 (currently amended): A processed part of a high strength electrical steel sheet as set forth in claim [[1]] 11, characterized wherein the part is heat treated after processing for shaping so that the metal phase comprised mainly of Cu present in the part has an average size of 0.1 µm or less.

13 (currently amended): A processed part of a high strength electrical steel sheet as set forth in claim [[1]] 11, eharacterized wherein the part is heat treated after processing for shaping so that the part has an average crystal grains size of 3 to 300 μm.

14 (currently amended): A processed part of a high strength electrical steel sheet as set forth in claim [[1]] 11, eharacterized wherein the part is heat treated after processing for shaping so that the number density of the metal phase comprised mainly of Cu with a size of 0.1 µm or less in the processed part is increased by 10-fold or more after the heat treatment.

15 (currently amended): A processed part of a high strength electrical steel sheet as set forth in claim [[1]] 11, wherein the part is heat treated after processing for

shaping so that the tensile strength of the part is increased by 30 MPa or more after the heat treatment.

16 (currently amended): A processed part of a high strength electrical steel sheet as set forth in claim [[1]] 11, wherein the part is heat treated after processing for shaping so that the hardness of the part is increased by 1.1-fold or more after the heat treatment.

Claims 17 to 20: (canceled).

21. (new) A high strength electrical steel sheet as set forth in claim 1, characterized by containing, by mass %, Si: 3.1 to 6.5%.